

ABSTRACT OF THE DISCLOSURE

A method for making a polymer layer with a selected index of refraction. The method includes flash evaporating a polymer precursor material capable of cross linking into a polymer with the selected index of refraction, forming an evaporate, passing the evaporate to a glow  
5 discharge electrode creating a glow discharge polymer precursor plasma from the evaporate, and cryocondensing the glow discharge polymer precursor plasma on a substrate as a condensate and crosslinking the condensate thereon, the crosslinking resulting from radicals created in the glow discharge polymer precursor plasma, forming a polymer having the selected index of refraction.